



## **Bid Documents for**

**DESIGN AND CONSTRUCTION TRAIN PROTECTION & WARNING SYSTEM (TPWS)  
FOR REWARI – JNPT SECTION (Combined for Phase 1 and Phase 2) INCLUDING  
TESTING AND COMMISSIONING ON DESIGN-BUILD LUMP SUM PRICE BASIS OF  
WESTERN DEDICATED FREIGHT CORRIDOR**

**TRAIN PROTECTION & WARNING SYSTEM (TPWS) WORKS  
CONTRACT**

**(Rewari – Makarpura of Phase 1 and Makarpura - JNPT of Phase 2)**

**CONTRACT PACKAGE ST P – 5A**

Issued on: 19.08.2014

ICB No: ST P-5A

**VOLUME - I (2/2)**

Employer:

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED  
(A GOVERNMENT OF INDIA ENTERPRISE)**

**MINISTRY OF RAILWAYS  
INDIA**

**BID documents  
FOR  
TRAIN PROTECTION & WARNING SYSTEM (TPWS) WORKS**

**Contract Package 5A**

**ICB Nos. ST P-5A**

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## Letter of Price Bid

Date: \_\_\_\_\_

Loan No.: *[insert No of Loan]*

Invitation for Bid No.: *[insert No of IFB]*

To: *[insert complete name of Employer]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bid Document, including Addenda No.: \_\_\_\_\_ issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Document and Technical Bid submitted for the following Works: \_\_\_\_\_
- (c) The total price of our bid, excluding any discounts offered in item (d) below is: \_\_\_\_\_;
- (d) The discounts offered and the methodology for their application are: \_\_\_\_\_;
- (e) Our bid shall be valid for a period of *[specify the number of calendar days]* days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to submit a performance security in accordance with the Bidding Document;
- (g) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

**Bidder's Authorised Signatory:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp \_\_\_\_\_

## Schedule 1: Schedule of Adjustment Data

- (i) Table A provides the coefficients to be used for local currency.
- (ii) [In Table B, the Bidder shall (a) indicate its proposed source and base values of indices for foreign currency elements of cost, and (b) derive its proposed weightings for foreign currency payment. In the case of very large and/or complex works contracts, it may be necessary to specify several families of price adjustment formulae corresponding to the different works involved.]

Table A. Local Currency

GC Sub-Clause 13.8: The coefficients estimated proportion of each cost element related to execution of works are provided in the tables below:

Fixed Component (a)	0.3
Labour (b)	0.3
Material (c)	0.25
Fuel & Power (d)	0.15

Note: The indices during the project implementation shall be taken from those published by Reserve Bank of India for all items and shall be as under:

For 'Labour': The All India Consumer Price Index for Industrial Workers

For 'Material': The Wholesale Price Index for All Commodities

For 'Fuel & Power' : The Wholesale Price Index for Fuel & Power

**Bidder's Authorised Signatory:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp \_\_\_\_\_

**Table B. Foreign Currency**

**State type:** Japanese Yen/Other foreign tradable Currencies (not to exceed two)

Index code	Index description	Source of index (*1)	Base value and date	Bidder's related source currency in type/amount <sup>1</sup>	Bidder's proposed weighting
	A: Non-adjustable B: (to specify) C: (to specify) D: (to specify) : : (etc.)	—	—	—	A: 0.3 _____ B: _____ C: _____ D: _____
<b>Total</b>					<b>1.00</b>

Note: Coefficient 'A', 'B', 'C', 'D' ..... specified in 2<sup>nd</sup> column of table B above are the Foreign Currency components corresponding to the similar coefficients 'a', 'b', 'c', 'd' applicable for Local Currency as specified in table A.

**Foreign Currency (Japanese Yen)**

Note: \*1; Indices shall be selected from the “Corporate Goods Price Index, Export Price Index (Yen Basis)” published by the Bank of Japan for the Materials, Plant and Contractor’s Equipment, and

From “Labour Statistics” published by the Ministry of Health, Labour and Welfare in Japan (refer to HP address: <http://www.mhlw.go.jp/english/database/index.html> ) for employees.

**Other Foreign Tradable Currencies**

Bidder shall provide the Indices with relevant source.

<sup>1</sup> Bidder's related source currency in type and amount shall be indicated, if price adjustment payments are made in a currency other than the currency of the source of the indexed input.

**Bidder's Authorised Signatory :**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp: \_\_\_\_\_

## Schedule 2

### Preamble to Price Schedule

- 1 The Price Schedules shall be read in conjunction with the “Instructions to Bidders”, “General Conditions”, “Particular Conditions”, “Employer’s Requirement” and Specifications forming a part of these Bid Documents.
- 2 The Bidder shall quote a Lump Sum Price for the Works described in Employer’s Requirements, Vol. II and III and as per Clause 14.1 of the Conditions of Contract. The quoted Lump Sum Price shall be applicable to the Contract as a whole. The Bidder shall complete all Works under the Contract as per the quoted Lump Sum Price and within the time stipulated in the Bid Documents.
- 3 The Lump Sum Price shall cover all the items of the Works as detailed in the “Vol. II - Employer’s Requirements-General Specifications” and Vol. III - Employer’s Requirements- Particular Specifications and its attachments as well as conforming to all specifications and stipulations laid down in the Bid Documents including all addenda/corrigenda thereof issued before the last date of submission of Bids. The Lump Sum Price shall be for the whole of the Works for **design, supply, construction and integrated testing and commissioning of the Train Protection and Warning System (TPWS) Works for the entire length of double line track inclusive of works on crossing and junction stations and connections to IR**, under the Contract. It shall be inclusive of all costs of design, drawings, reports, survey, site facilities, construction equipment, Plant, instruments, labour, supervision, materials, erection, testing, Temporary Works, site access, storage, safety, security, removal of utilities, defect rectification during the Defects Notification Period, license, inspection fees, profit, duties, taxes, levies, royalties as per applicable law together with all general risks, liabilities and obligations set out or implied in the Contract as on the date 28 days prior to the last date of submission of the Bid. The Contract Price shall not be adjusted to take account any unforeseen difficulties or costs, unless otherwise provided for in the Agreement. Unless otherwise stated in the Contract, the Contract Price covers Contractor’s all obligations under the Contract and all things necessary for proper investigations, design, construction and maintenance and remedying of any Defects in the Works during the Defect Notification Period.
- 4 The Bidder is deemed to have taken full account of all requirements and obligations, whether expressed or implied, covered by all parts of the Contract and to have quoted the Lump Sum Price accordingly. The quoted Lump Sum Price shall include all incidental and contingent expenses and risks of every kind necessary to design, supply, construct, integrated testing and commissioning, and maintaining the whole of the Works in accordance with the Contract. Payment of all items will be made on a Lump Sum Price basis in accordance with the Conditions of Contract and as specified herein. The item descriptions, given in the Schedules, in no way limit the Contractor's obligations under the Contract to provide all the Works described in the Employer’s Requirements.
- 5 Value Added Tax will not be exempted for contractors or suppliers. The Value Added Tax shall be paid by the Contractor according to the Conditions of Contract in reference to VAT.  
  
Corporation tax for the income from the Works shall be paid by the Contractor. Such corporation tax is not exempted for the Contractor or suppliers.  
  
Import customs duties for all the items identified by the Contractor for import shall be paid by the Contractor.
- 6 The Works have been divided into Five Cost Centers along with their respective weightage percentages of the Contract Price in the Price Schedules. The value of each Cost Centre shall be

based on a Lump Sum Contract Price applying the weightage assigned to the Cost Centre. For further estimating the interim payment, each cost centre has been broken into items of works with percentage weightages of the Contract Price for items of work / stages as indicated in Schedule 5.1 to 5.5.

- 7 The Schedule 4 shall be completed by the Bidder in respect of all the items for payment purpose.

**Note:**

The Price Schedules are to determine the Bid Price. However, the Lump Sum Bid Price as quoted by the Bidder in “Schedule 3 – Price Schedule – Lump Sum Bid Price shall be considered final and used for Comparison of Bids.



### SCHEDULE 3: PRICE SCHEDULE - LUMP SUM BID PRICE

Bid Price for Train Protection and Warning System (TPWS) Works including Integration with IR existing Railway System and Testing & Commissioning on Design-Build Lump Sum Basis of Package ST P-5A, Phase 1 & Part of 2 of Western Dedicated Freight Corridor is as given below:

Name of payment currency	A Amount of currency	B Rate of exchange (Foreign currency per unit of Japanese Yen)	C Foreign currency equivalent $C = A \times B$
Local Currency (INR) #			
Foreign currency Japanese Yen		1.00	
Foreign currency -2 #			
Foreign currency -3 #			
Equivalent BID PRICE [BP] (In Japanese Yen)- Y			
Equivalent Bid Price BP) in INR-X#			

# The exchange rate shall be as specified in ITB 34.1 (BDS)

We undertake to receive the payments against the completion of works under various Cost Centers in respective portions (as filled by the Bidder/Contractor in the Schedule 4: Price Schedule – Currency wise Breakup of Lump Sum Bid Price Against Various Cost Centre for Payment Purpose) of Local (INR) and Foreign Currencies :-

**Name of bidder**

**Signature of Bidder**

**SCHEDULE – 4**

**Price Schedules – Currency wise Breakup of Lump Sum Bid Price against various Cost Centres for Payment Purpose**

	Description of Cost Center	Weightage of Cost Center (% of total Bid Price)	Weightage of Cost Centre – Foreign Currency (JPY) Portion Out of Column – (2)* in terms of percentage	Foreign Currency (JPY) Column no – (3) x Conversion Factor (INR to JPY as on Base date) x Bid Price in INR (X)	Weightage of Cost Centre – Foreign Currency – 2, Portion # Out of Column – (2)* in terms of percentage	Foreign Currency (2) Column no – (5) x Conversion Factor (INR to Foreign Currency-2, as on Base date x Bid Price in INR (X)	Weightage of Cost Centre – Foreign Currency – 3, Portion # Out of Column-(2)* in terms of percentage	Foreign Currency (3) Column no- (7) x Conversion Factor (INR to Foreign Currency-3, as on Base date) x Bid Price in INR (X)	Weightage of Cost Centre – Local Currency # Portion Out of Column – (2)*	Local Currency in INR Column no – (9) x Bid Price in INR (X)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Reconnaissance Survey, Inception Report, Designs & Drawings: Basic, Detailed, Equipment layout, As Built and Manuals	2.50								
2	<b>TPWS</b>									
2.1	Installation of On-Board equipment - Cabinet, DMI, Antenna, tachometer etc.	25.26								
2.2	Installation of Line side Equipment - LEU, Balise etc.	55.65								
2.3	Supply and laying of cables	8.59								
2.4	Software and Data	5.00								
	<b>Total for TPWS</b>	<b>94.5</b>								
3	System Test and Commissioning (Sections)/	1.00								

	Training/ Mockup & Prototypes									
4	Integrated Testing and Commissioning of Complete Works	0.5								
5	Supply of Spares, Tools & Instruments	1.5								

The weightage mentioned in Column no-2 should be equal to the sum of weightages mentioned in column no-3, 5, 7 & 9 i.e. Col no-2 = Col no.3+ Col no. 5+ Col No. 7+ Col no. 9.

**Note:**

1. For the purposes of better appreciation of the Bidder’s Lump Sum Price, the Bidder should indicate separately the rate of all the applicable taxes as on the base date and total amount of taxes included in his Lump Sum Price Bid. Post bid submission, DFCCIL will not admit any change in either the tax components or tax rates beyond the list given in bidder’s price bid, unless dictated by law of the land as per PC 13.7. In case, any reduction in Taxes, Custom duty or any benefit like Deemed Export Benefit results due to any change in Laws or Interpretation of the existing Laws, the Contractor shall pass on the Financial benefit to the Employer. In order to facilitate the Employer to avail deemed export benefit, the Contractor has to furnish the following documents:
  - (i) Disclaimer Certificate- in a Format approved by the Employer with regard to Contractor not claiming the Deemed Export Benefits.
  - (ii) Invoice/Bills of entry evidencing payment of Excise / Custom Duty.
  - (iii) Any other Document required as per Foreign Trade Policy (FTP)

**Name of bidder**

**Signature of Authorized Signatory**

## **SCHEDULE 5**

### **Payment Schedule**

- 1 General
- 1.1 Interim payments shall be made on pro-rata basis for the work done against each item of the Works in accordance with the provisions of Sub-Clause 14.4 of the Conditions of Contract.
- 1.2 The Employer shall make Interim Payments to the Contractor in accordance with the provisions of Sub-Clause 14.4 of Conditions of Contract, as certified by the Engineer on the basis of the progress achieved for the items of works/ stages of the works estimated in accordance with the weightage (in percentage) of the Contract Price assigned to each item of work in accordance with the provisions of Schedules 5.1 to 5.5.
- 1.3 The Contractor shall base its claim for interim payment as per GCC Sub-Clause 14.3 for each stage for various items of work on the basis of actual progress of work executed till the end of the month for which the payment is claimed in relation to the Contractor's total estimated quantity, supported with documents and updated programme in accordance with the Employer's Requirements.
- 1.4 The Employer may carry out necessary test checks either directly or through an independent agency, of the Works done by the Contractor for which the payment has been accepted and certified by the Engineer. The payment shall depend upon the outcome of such test checks.
- 1.5 Variation under Clause 13 of the Conditions of Contract shall be valued with respect to the approved designs/drawings and any additions or subtractions to the Contract Price, as the case may be, shall be done in accordance with the provisions of Sub-Clause 13.3 of Conditions of Contract.
- 1.6 Adjustment for changes in cost shall be made in accordance with Sub-Clause 13.8 of Conditions of Contract.
- 1.7 The Price Schedules shall be filled in with indelible ink or be type written. The person authorized to sign on behalf of the Bidder (Authorised Signatory) shall sign in full with the date at the bottom of all pages of all Schedules.

#### **Note:**

The contract envisages retention of money for satisfactory fulfillment of obligations under the defect notification period. For this, deductions towards Retention Money shall be made as per the provisions specified in ATB 14.3(c) and ATB 14.9 in Volume I (1/2).

#### **2.0 Procedure for Payment of Bills**

- 2.1 Responsibility of preferring the bill and entering the details shall vest with the Contractor. It is his responsibility to ensure that under no circumstances the payment claimed is more than the amount equivalent of Work done. If it is discovered or otherwise during the check by the Engineer or the Employer, then a warning will be issued. If the instance is repeated then an amount equivalent to 10% of the excess claim shall be forfeited besides denying the extra claim.
- 2.2 Format for bill submission shall be agreed between the Engineer and the Contractor.
- 2.3 While submitting the bills all supplementary details of physical work executed during the month supporting the break up provided in the Price Schedule. The sketches, drawings, approvals, calculations etc. shall accompany the bill so that payment can be substantiated and certified by the Engineer and submitted to the Employer.

- 2.4 Even if no work is executed during the month or contractor does not choose to prefer a bill a 'NIL' bill shall be submitted by him.
- 2.5 Methodology of claiming payment:-
- The Contractor shall prepare his monthly bill in the agreed format as per para 2.2 above in four hard copies and a soft copy. This shall be accompanied by supplementary details in accordance with PC 14.3. All hard copies shall bear the original signatures of the Contractor or its authorized signatory and submitted to the Engineer.
  - If these are found in order then Engineer shall forward two certified copies of the bill and along with certified supplementary details with his recommendations for payment to the Employer, otherwise return back all documents to the Contractor for rectification and resubmission.
- 2.6 The Employer may deploy external agencies, other than the Engineer, to cross check the work done by the Contractor. If at a later stage it is discovered that excess payment has been released to the contractor or the work is found to be defective then suitable recoveries would be affected from the first available bill of the contractor.
- 2.7 In case of payments to be made under Schedules 5.2 to 5.5 for supply of Materials, following procedures shall be adopted;
- a) For Imported Capital Equipment such as, TPWS, etc. where provision for payment on shipping has been made :-
    - Payments on Shipping on Bill of Lading shall be made for the materials as provided in the Schedules by submitting proof of Insurance for the consignment and a bank guarantee for the amount of payment claimed in favour of the Employer valid till the equipment is installed in the Permanent Works.
  - b) For supply of materials & equipment in Contractor's Depot or at site of Permanent Works as specified, payment shall be made as provided in the Schedule by submitting a bank guarantee for the amount of payment claimed in favour of the Employer for the duration until these are incorporated in Permanent Works.
  - c) The contractor shall produce evidence that the materials & equipment are as per specifications, and have met all the requirements of checks and tests.
  - d) The materials shall have been handled with care and delivered to site undamaged and also when brought to Contractor's Depot or at site of Permanent Works are properly stored against loss & pilferage, damage and deterioration.
  - e) Proper up to date records on receipt, storage and use in the permanent works are maintained by the Contractor and are available for inspection by the Engineer.

(2/2)

Package -5A: Train Protection &amp; Warning System Works

Rewari-JNPT Section

<b>Schedule 5 - PAYMENT SCHEDULE SUMMARY (ST P-5A)</b>			
<b>S. No.</b>	<b>Cost Centre</b>	<b>Percentage of Contract Price (%)</b>	<b>Schedule</b>
1	Reconnaissance Survey, Inception Report, Designs & Drawings: Basic, Detailed, Equipment layout, As Built and Manuals	2.50	5.1
2	TPWS		5.2
2.1	Installation of On-Board equipment - Cabinet, DMI, Antenna, tachometer etc.	25.26	5.2.1
2.2	Installation of Line side Equipment - LEU, Balise etc.	55.65	5.2.2
2.3	Supply and laying of cables	8.59	5.2.3
2.4	Software and Data	5.00	5.2.4
	<b>Total For TPWS</b>	<b>94.50</b>	
3	System Test and Commissioning (Sections)/Training/Mockup & Prototypes	1.00	5.3
4	Integrated Testing and Commissioning of Complete Works	0.50	5.4
5	Supply of Spares, Tools & Instruments	1.50	5.5
	<b>Grand Total</b>	<b>100.00</b>	
<p>I/We accept the above percentage as agreed with the Employer and filled in column 3 for the apportionment of the Contract Price for completion of the Works corresponding to the items given above (and as may be amended with the agreement of the Employer), and for estimating Interim Payments in accordance with schedule- 5.1 to 5.16 and Sub-Clause 14.4 of Conditions of Contract. The aforesaid percentages are fixed and not negotiable.</p>			
		<b>Name of Bidder</b>	
		<b>Signature of Bidder</b>	

Schedule 5.1						
Basis of Payment for Interim Payments for Reconnaissance Survey, Inception Report, Designs & Drawings: Basic, Detailed, Equipment layout, As Built and Manuals						
Cost Centre	Item of Work	Item No.	Payment Event	Weightage %	Cost	Payment Procedure
Reconnaissance Survey, Inception Report, Designs and Drawings : Basic, Detailed, Equipment layout, As Built and Manuals.	Inception Report	5.1.1	Reconnaissance Survey and Inception Report.	4%	2.5 % of the Contract Price	The Unit of measurement shall be for each station and Block section. Payment of each stage will be made on pro-rata completion of each unit as per weightage given in this Schedule
	NOT USED	5.1.2	---	---		
	Management Plans - Lot 1	5.1.3	Project Plan, Quality Plan, Safety Plan, Design Plan.	6%		
	Management Plans - Lot 2	5.1.4	Interface Management plan, System Integration Management Plan, Certification Management Plan, Software Assurance Quality Plan, Design Verification and Validation Plan, Health and Safety Documentation, Environmental Qualities Management Plan, Environmental Mitigation Implementation Schedule, EMC Plan, Supply Plan, Factory Acceptance Testing Plan, Installation Plan, Commissioning Plan.	8%		
	Management Plans - Lot 3	5.1.5	Operation & Maintenance Manuals Plan, Training and Knowledge/Skills Transfer Plan, Spare Parts and Consumable Management Plan, Defect Liability Management Plan.	7%		
	Finalization of Basic System Designs	5.1.6	Approval by Engineer of Basic designs as per details given in Employer's Requirement of Bid Documents, System Designs of compatibility of Signal & Telecom installations and Earthing and Bonding of the System.	20%		
	Finalisation of Detailed Designs including Earthing and Bonding	5.1.7	Approval by Engineer of Detailed designs as per details given in Employer's Requirement of Bid Documents.	25%		
	Equipment layout designs	5.1.8	Approval by Engineer of Equipment layout designs as per details given in Employer's Requirement of Bid Documents.	10%		
	As Built Designs, Drawings and Manuals	5.1.9	No objection to as Built Designs, Drawings, O&M Manuals as per details given in Employer's Requirement of Bid Documents and all residual Works.	20%		
			Total	100%		
						<b>Name of Bidder</b>
						<b>Signature of Bidder</b>

Schedule 5.2.1 - Basis of Payment for Interim Payments for Construction of TPWS On-Board equipment: Cabinet, DMI, Antenna, tachometer etc.								
Cost Centre		Item of Work	Item No.	Payment Event	Weightage %	Cost	Payment Procedure	
TPWS - 5.2	Schedule 5.2.1	TPWS On-Board equipment	5.2.1.1	TPWS On-Board equipment including Cabinet, PCBs, DMI, Antenna, tachometer, connecting cables etc ready for shipment from abroad on receipt of a Bill of Lading.	60%	25.26% of the Contract Price	Cost of equipment on per Loco basis.	
			5.2.1.2	On receipt of TPWS On-Board equipment at Loco manufacturing unit.	20%			
			5.2.1.3	On completion of Installation.	15%			
			5.2.1.4	On completion of Testing.	5%			
			TOTAL					100%
						Signature of Bidder		



Schedule 5.2.2 - Basis of Payment for Interim Payments for Construction of TPWS Line side Equipment - LEU, Balise, Cabling between LEU & Balise etc.						
Cost Centre	Item of Work	Item No.	Payment Event	Weightage %	Cost	Payment Procedure
TPWS - 5.2	Schedule 5.2.2 TPWS Line side equipment	5.2.2.1	TPWS Line side equipment including LEU & its power supply, Balise, LEU to Balise connecting cable etc ready for shipment from abroad on receipt of a Bill of Lading.	60%	55.65% of the Contract Price	The Unit of measurement shall be for each station and Block section. Payment of each stage will be made on pro-rata completion of each unit as per weightage given in this Schedule.
		5.2.2.2	On receipt of TPWS Line side equipment at site office and acceptance by the Engineer.	20%		
		5.2.2.3	On completion of Installation.	15%		
		5.2.2.4	On completion of Testing.	5%		
			TOTAL	100%		
						<b>Name of Bidder</b>
						<b>Signature of Bidder</b>

Schedule 5.2.3 - Basis of Payment for Interim Payments for Construction of TPWS: Supply and laying of cables									
Cost Centre		Item of Work		Payment Event	Weightage %	Cost	Payment Procedure		
TPWS - 5.2	Schedule 5.2.3	Supply and laying of cables.	5.2.3.1	On receipt of all cables at site office as per approved cable plan and acceptance by the Engineer.	65%	8.59% of the Contract Price	The Unit of measurement shall be for each station and Block section. Payment of each stage will be made on pro-rata completion of each unit as per weightage given in this Schedule.		
			5.2.3.2	On laying of cables at stations as per approved cable plan.	10%				
			5.2.3.3	On laying of cables in Block Sections and provision of cable markers as per approved cable plan.	15%				
			5.2.3.4	On completion of meggering, submission of meggering test records and termination of all cables.	10%				
			Total					100%	
								<b>Name of Bidder</b>	
					<b>Signature of Bidder</b>				



Schedule 5.3 - Basis of Payment for Interim Payment for : System Test and Commissioning, Training, Mock-up & Prototype							
Cost Centre		Item of Work		Payment Event	Weightage %	Cost	Payment Procedure
System Test and Commissioning, Training, Mock-up & Prototypes	Schedule 5.3	Testing and Commissioning/Training/Mock-up & Prototypes	5.3.1	After successful completion of Testing and Commissioning of TPWS works, Training, Mockup and Prototypes.	100%	1.0 % of the Contract Price	Payment for Testing and Commissioning shall be released after successful completion of respective Testing and Commissioning of complete Works & Certification by Engineer and Training.
				Total	100%		
							<b>Name of Bidder</b>
							<b>Signature of Bidder</b>

<b>Schedule 5.4 - Basis of Payment for Interim Payment for System Integrated Testing and Commissioning of complete Works</b>					
Cost Centre		Item of Work	Stage Payment	Weightage %	Payment Procedure
Integrated Testing and Commissioning of complete Works	Schedule 5.4	Integrated Testing and Commissioning	After successful completion of Integrated Testing and Commissioning of the whole of the Works.	0.50% of the Contract Price	Payment for Integrated Testing and Commissioning shall be released after successful completion of Integrated Testing and Commissioning of Works and certification by the Engineer.
				<b>Name of Bidder</b>	
				<b>Signature of Bidder</b>	



## SCHEDULE 6

### Spares, Special tools, Diagnostic Equipment and Test Instruments required to be supplied as a part of the Contract

List of Items to be provided to DFCCIL after completion of works and before taking over by DFCCIL.

The table below shall be filled in by the Bidder as specified in Chapter 27 of Volume II and Chapter 13 of Volume III of Bid Documents. This list shall be agreed by the Employer.

S. No.	A. Spares	Unit	Quantity
	<b>B. Special tools</b>		
	<b>C. Diagnostic Equipment</b>		
	<b>D. Test Instruments</b>		

The above items in good condition shall be handed over to the nominated official of the Employer at a location indicated by the Employer.

**Bidder’s Authorised Signatory:**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp

## **SCHEDULE 7**

### **Anticipated Cash Flow for the Works**

- (a) Bidders shall provide in this Form an anticipated Cash Flow for the whole period of execution of the Works.
- (b) The cash flow shall be prepared in both graphic histogram and (S-Curve) format and also in tabulated format.
- (c) The cash flow shall be prepared in separate sheets to clearly show each anticipated payment over the period of the Contract (including the Defects Notification Period) for
  - (i) foreign currency portion
  - (ii) local currency portion
  - (iii) combined currency expressed in Japanese yen
- (d) All required documents must be included in the envelope marked “**PRICE BID DOCUMENTS**” with the submitted Bid Documents clearly identified as Part of the Volume I (2/2) Section 6, Financial Submissions.
- (e) This Form shall not be submitted separately for each Partner or separately for each Specialist Subcontractor. The submission with all supporting documents shall be reviewed and coordinated by the Bidder and provided as one overall combined submission.

**Bidder’s Authorised Signatory :**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp



## SCHEDULE 8 (Part A)

### List of Foreign Cost Components (Items to be procured under STEP component)

Bidders shall provide detail of items to be procured under STEP component and their quantities and assessed combined cost of all components to be procured from Japan and / or from countries other than Japan, which have already been counted into the foreign cost component in the Price Schedule.

Sl. No.	Description	Unit	Quantity	Country of Origin	Total FC Component Amount of items to be procured under STEP Component*			
					Cost Excluding Local Taxes/Duties			Local Taxes including Import Duty
					From Japan	From eligible manufacturing companies of Japanese origin in countries Other than Japan [FC in Other Tradable Foreign Currencies (not exceeding two)]		
					(YEN)	FC1	FC2	(INR)
1								
2								
3								

Note: Cost components to be listed for the following;

Imported items from Japan and / or from countries other than Japan, as the case may be) which are incorporated in the Works

\* Assessed cost of STEP component items to be procured, to meet the STEP ratio certified in the Form FIN-6: Procurement Procedure (Vol I – Section 3).

**Bidder's Authorized Signatory**

Signature: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Company Stamp

## SCHEDULE 8 (Part B)

### List of Foreign Cost Components (For items other than to be procured under STEP component)

Bidders shall provide cost of all components to be procured from Japan and / or from countries other than Japan (For items other than to be procured under STEP component), which have already been counted into the foreign cost component in the Price Schedule.

SI. No.	Description	Unit	Quantity	FC Amount of Components to be procured from Japan	FC Amount of Components to be procured from Countries Other than Japan (FC in Other Tradable Foreign Currencies (not exceeding two))	
				(Yen)	FC1	FC2
<b>Total</b>						

Note: Cost components to be listed for the following;

- (1) Supervisory staff, foreman, technician, and any other specialty who are Japanese and / or other national (as the case may be)
- (2) Cost of construction equipment and appliances imported from Japan and /or from countries other than Japan (as the case may be). Unit will be “day” or “hour” for operation during site mobilization. Amount shall include depreciation, operation & maintenance (Japanese mechanic and spare parts imported from Japan and / or from countries other than Japan, as the case may be) and annual management costs of equipment
- (3) Imported materials from Japan and / or from countries other than Japan, as the case may be) which are incorporated in the Works

**Bidder's Authorized Signatory**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp

## SCHEDULE 9 (Part A)

### List of Local Cost Components (Items to be procured under STEP component)

For the part of the Works to be funded under the JICA Special Terms for Economic Partnership (STEP) loan, the Bidder shall provide the detail of items to be procured under STEP component and their quantities and assessed combined cost of all components to be procured from India which have already been counted into the local cost component in the Price Schedule.

Sl. No.	Description	Unit	Quantity	Total LC Component Amount of items to be procured under STEP Component*	
				Cost excluding Taxes	Local Taxes
				(INR)	(INR)
<b>1</b>					
<b>2</b>					
<b>3</b>					

Note: Cost components to be listed for the following;

Components or assemblies procured through Indian vendors (eligible local manufacturing companies).

\* Assessed cost of STEP component items to be procured, to meet the STEP ratio certified in the Form FIN-6: Procurement Procedure (Vol I – Section 3).

**Bidder's Authorized Signatory**

Signature: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Company Stamp

## SCHEDULE 9 (Part B)

### List of Local Cost Components (For items other than to be procured under STEP component)

For the part of the Works to be funded under the JICA Special Terms for Economic Partnership (STEP) loan, the Bidder shall provide the cost of all components (other than the items to be procured under STEP component) to be procured from India which have already been counted into the local cost component in the Price Schedule.

Sl. No.	Description	Unit	Quantity	Amount (INR)
<b>Total</b>				

Note: Cost components to be listed for the following;

- (1) Major Goods, services and materials for Temporary Works to be exclusively used for this Contract to be procured in India,
- (2) Cost of the Bidder's Equipment, its appliances and spare parts for Temporary Works procured in India. Unit of equipment will be "day" or "hour" for operation during site mobilization. Amount shall include depreciation, operation & maintenance (Indian mechanic and spare parts procured in India) and annual management costs of equipment to be incurred in India.
- (3) Components or assemblies procured through Indian vendors

**Bidder's Authorized Signatory**

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Company Stamp